

SECTION I

ALGEBRA, SEQUENCES AND SERIES

ALL working must be clearly shown.

1. (a) Consider the quadratic equation $qx^2 - (4p)x + pq^2 = 0$, where p and q are both positive integers.
- (i) Express the sum AND product of the roots of the equation in terms of p and q .

SOLUTION:

Data: $qx^2 - (4p)x + pq^2 = 0$

Required to express: The sum AND product of the roots of the equation in terms of p and q .

Solution:

If $ax^2 + bx + c = 0$ has roots α and β , then

$$(x - \alpha)(x - \beta) = 0$$

$$\text{i.e. } x^2 - (\alpha + \beta)x + \alpha\beta = 0$$

Equating coefficients, we have

The sum of the roots, $\alpha + \beta = -\frac{b}{a}$ and the product of the roots

$$\alpha\beta = \frac{c}{a}$$

In the given equation $qx^2 - (4p)x + pq^2 = 0$, we have $a = q$, $b = -4p$ and $c = pq^2$

$$\begin{aligned} \text{Sum of the roots} &= \frac{-(-4p)}{q} \\ &= \frac{4p}{q} \end{aligned}$$

$$\text{Product of the roots} = \frac{pq^2}{q}$$

$$= pq$$

Xtreme Paper Add Maths

Ying-Ying Zheng

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Bus Transportation ,1931 **The Builder** ,1900 **Official Gazette of the United States Patent and Trademark Office** ,2006 **Popular Mechanics** ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Backpacker ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured *The Multimedia and CD-ROM Directory* ,1997

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This book delves into Xtreme Paper Add Maths. Xtreme Paper Add Maths is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Xtreme Paper Add Maths, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Xtreme Paper Add Maths
- Chapter 2: Essential Elements of Xtreme Paper Add Maths
- Chapter 3: Xtreme Paper Add Maths in Everyday Life
- Chapter 4: Xtreme Paper Add Maths in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Xtreme Paper Add Maths. This chapter will explore what Xtreme Paper Add Maths is, why Xtreme Paper Add Maths is vital, and how to effectively learn about Xtreme Paper Add Maths.
3. In chapter 2, this book will delve into the foundational concepts of Xtreme Paper Add Maths. This chapter will elucidate the essential principles that need to be understood to grasp Xtreme Paper Add Maths in its entirety.
4. In chapter 3, the author will examine the practical applications of Xtreme Paper Add Maths in daily life. This chapter will showcase real-world examples of how Xtreme Paper Add Maths can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Xtreme Paper Add Maths in specific contexts. The fourth chapter will explore how Xtreme Paper Add Maths is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Xtreme Paper Add Maths. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Xtreme Paper Add Maths.

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